

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference Sr 4/96 PCT	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE97/01346	International filing date (day/month/year) 27 June 1997 (27.06.1997)	Priority date (day/month/year) 27 June 1996 (27.06.1996)
International Patent Classification (IPC) or national classification and IPC H04B 10/22, 10/06, H01S 3/06, 3/17		<b>RECEIVED</b> JUN 07 1999
Applicant SCHLEIFRING UND APPARATEBAU GMBH		<b>GROUP 3300</b>

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.  <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of _____ sheets.
3. This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input checked="" type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 11 November 1997 (11.11.1997)	Date of completion of this report 08 October 1998 (08.10.1998)
Name and mailing address of the IPEA/EP European Patent Office D-80298 Munich, Germany Facsimile No. 49-89-2399-4465	Authorized officer  Telephone No. 49-89-2399-0

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE97/01346

## I. Basis of the report

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.)*:

- ☐ the international application as originally filed.
- ☒ the description, pages 1-9, as originally filed,  
 pages \_\_\_\_\_, filed with the demand,  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the claims, Nos. 1-8, as originally filed,  
 Nos. \_\_\_\_\_, as amended under Article 19,  
 Nos. \_\_\_\_\_, filed with the demand,  
 Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
 Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_.
- ☒ the drawings, sheets/fig 1/1, as originally filed,  
 sheets/fig \_\_\_\_\_, filed with the demand,  
 sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
 sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

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**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement

Novelty (N)	Claims	1-8	YES
	Claims		NO
Inventive step (IS)	Claims	1-8	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-8	YES
	Claims		NO

## 2. Citations and explanations

The international application relates to a device for receiving optical signals with a light guide.

D1 (DE-A-4 421 616), as the closest prior art, discloses with respect to the subject matter of claim 1 a device for receiving optical signals with a light guide into which the optical signal to be received can be coupled. By spontaneous emission fluorescent light is radiated at a higher wavelength than the original and is propagated in the longitudinal direction of the object (for example, an optical fibre) to a detector.

The remaining search report citations merely contain the general background art.

To enable in an arrangement of this kind extensively lossfree reception of optical signals with a large band width, according to claim 1 of the international application when light is impinged an optical signal of the same wave length is produced by elastic scattering, with a radiation component extending in the direction of the light guide.

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None of the international search report citations individually or in combination discloses or suggests this subject matter. Novelty and inventive step are thus acknowledged.

This also applies to dependent claims 2 to 4 and dependent use claims 5 to 8.

**VII. Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:

To meet the requirements of PCT Rule 5.1(a)(ii), the description should cite D1 and D2 (EP-A-0 586 713) and give a brief outline of the relevant prior art therein.

To meet the requirements of PCT Rule 6.3(b), Claim 1 should be drafted in the two-part form.

The features of the claims are not provided with reference signs placed between parentheses (PCT Rule 6.2(b)).